

## Special Issue

# Novel Approaches for Earthquake and Land Subsidence Prediction

### Message from the Guest Editor

Earthquakes represent one of the most devastating and destructive dangers to the built environment. One of the largest earthquake-induced phenomena is land subsidence. Due to the significant economic and social impacts of such phenomena, there is an increasing need to mitigate their effects through, e.g., passive methods enabling prediction and identification based on continuous monitoring. AI-based geospatial data analysis, advanced geospatial sensing, processing, imaging technologies, and remote sensing technologies such as laser radar, synthetic aperture radar, radar interferometry and GPS can detect the changes in the Earth with high accuracy; they are more widely used for land subsidence and earthquake studies, including long-term risk assessment and monitoring, prediction and early warning. This Special Issue aims to collect contributions exploring advances in earthquake prediction and land subsidence, including, but not limited to, the following topics: Land subsidence; Geodesy; Remote sensing; GIS; Earthquake prediction; Earthquake hazard monitoring; Earthquake risk analysis; Geospatial data analysis; Earthquake early warning.

---

### Guest Editor

Dr. Michele Placido Antonio Gatto

Department of Civil, Environmental, Architectural Engineering, and Mathematics, University of Brescia, Via Branze 38, 25123 Brescia, Italy

---

### Deadline for manuscript submissions

closed (20 August 2024)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/181588](https://mdpi.com/si/181588)

*Applied Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[appls-ci@mdpi.com](mailto:appls-ci@mdpi.com)

[mdpi.com/journal/](https://mdpi.com/journal/)

[appls-ci](https://appls-ci.mdpi.com)





# Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/journal/  
applsci](https://mdpi.com/journal/applsci)



## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

---

### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,  
20133 Milano, Italy

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering )